

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P509885

Luminaire Tested: **VERD-M-CA3-160-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-160-730-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1000mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22896 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

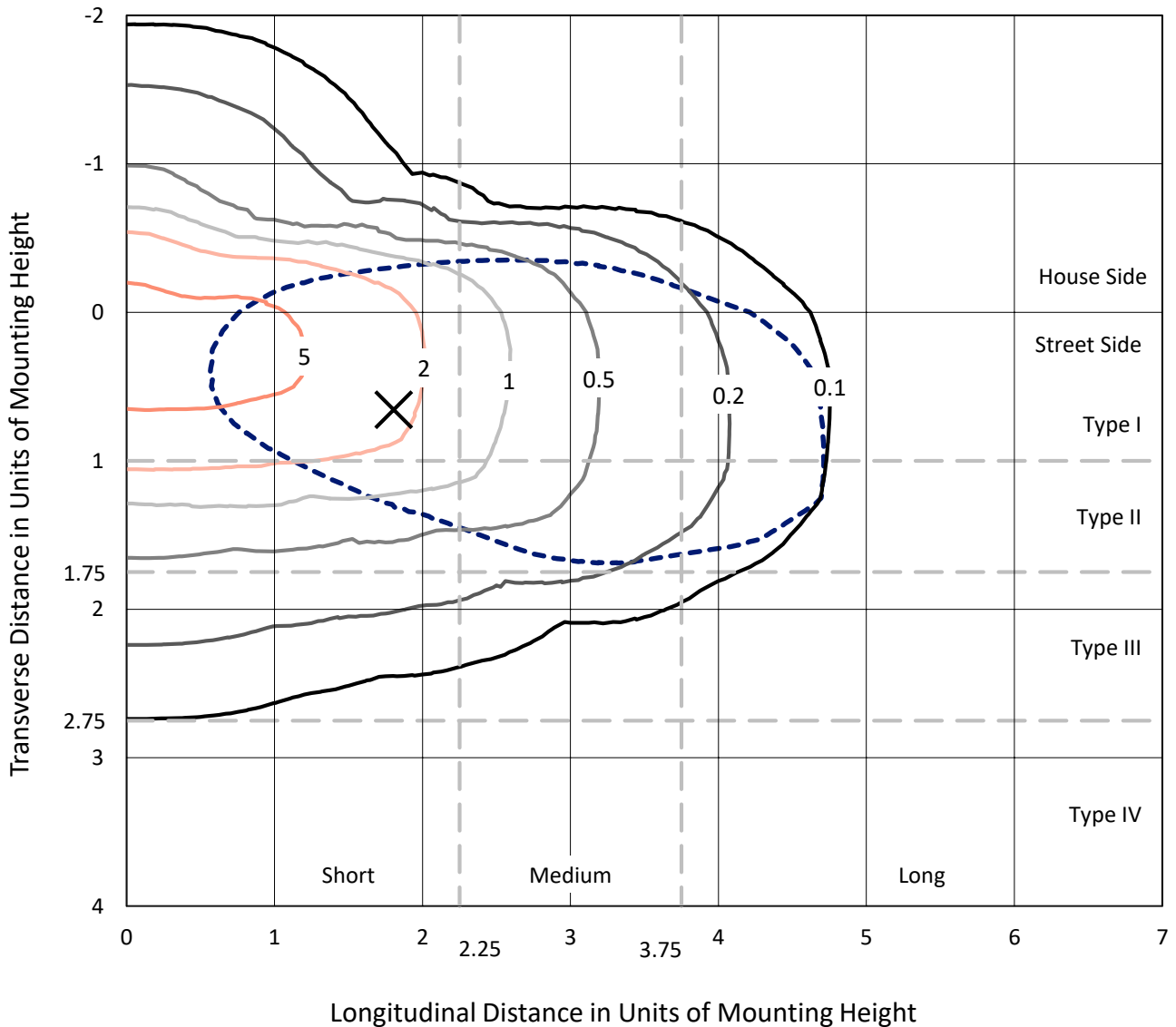
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

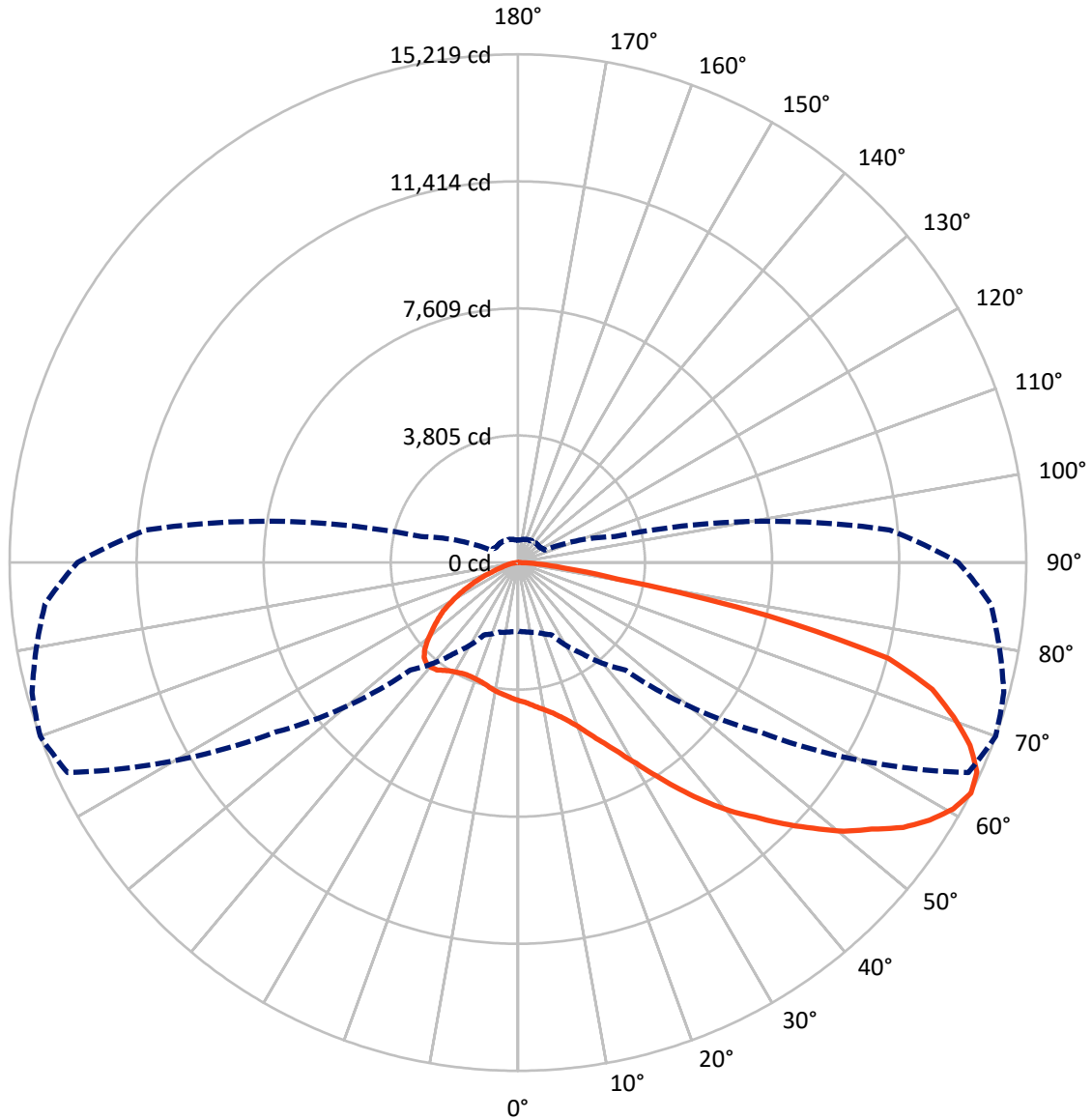
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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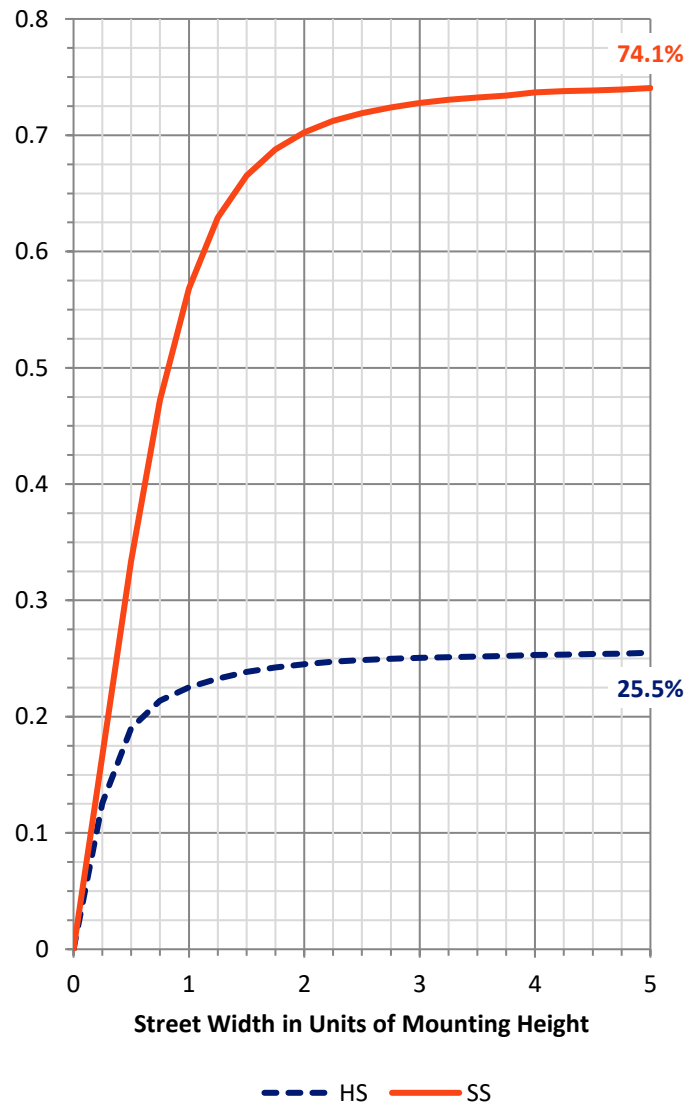
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5927.9	0.0	5927.9
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	16968.1	0.0	16968.1
	% Fixture	74.1	0.0	74.1
Total	Lumens	22896.0	0.0	22896.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.9	1.7
10°-20°	1205.4	5.3
20°-30°	2045.7	8.9
30°-40°	2960.0	12.9
40°-50°	3884.3	17.0
50°-60°	4538.7	19.8
60°-70°	4554.8	19.9
70°-80°	2902.3	12.7
80°-90°	407.9	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22896.0	100.0
0°-180°	22896.0	100.0



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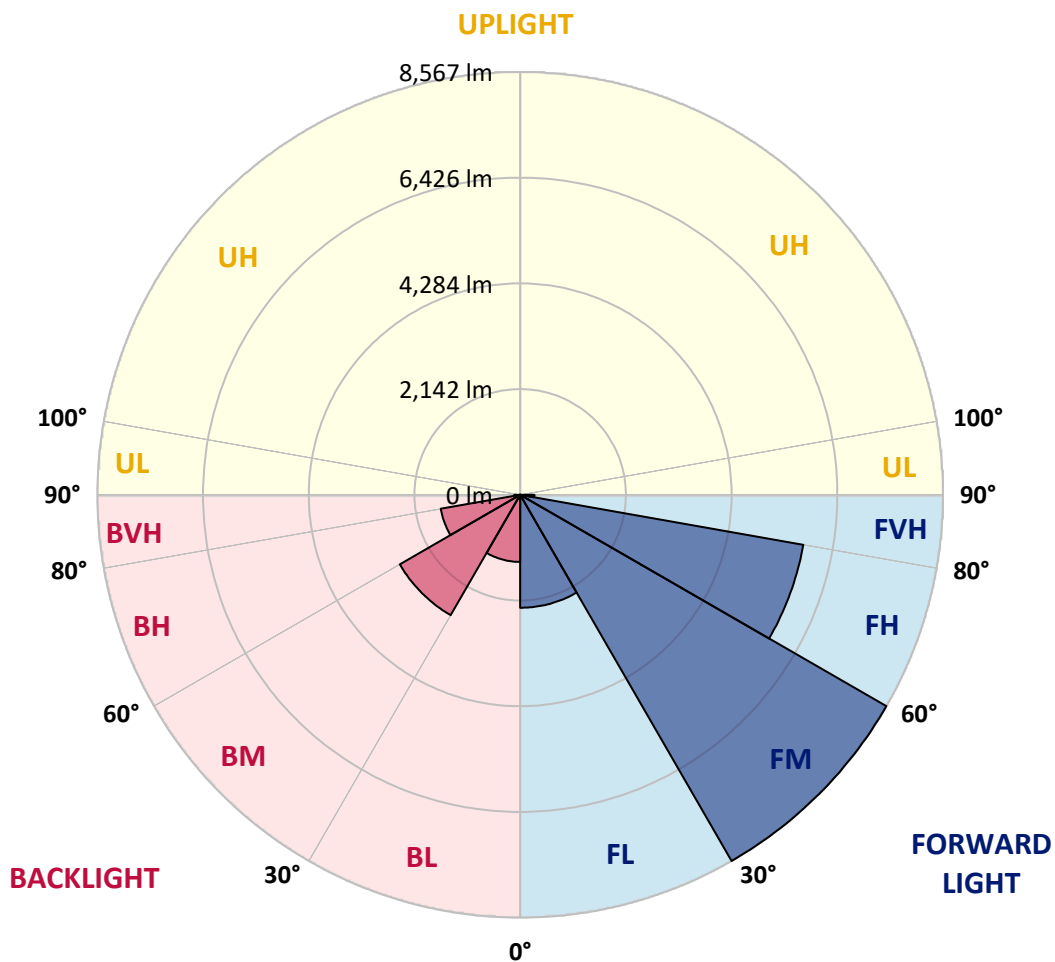
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2288.5	10.0			
FM	(30°-60°)	8567.4	37.4			
FH	(60°-80°)	5824.5	25.4			G3/7500
FVH	(80°-90°)	287.7	1.3			G3/500
BL	(0°-30°)	1359.5	5.9	B3/2500		
BM	(30°-60°)	2815.6	12.3	B3/5000		
BH	(60°-80°)	1632.6	7.1	B3/2500		G3/2500
BVH	(80°-90°)	120.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4
2.5°	4290.7	4336.2	4330.0	4302.1	4321.8	4268.0	4248.3	4218.3	4187.2	4176.9	4159.3
5°	4493.5	4553.5	4542.1	4504.9	4503.9	4427.3	4383.8	4326.9	4279.3	4242.1	4187.2
7.5°	4682.8	4752.2	4741.8	4705.6	4703.5	4615.6	4525.6	4436.6	4381.8	4334.2	4233.8
10°	4883.6	4936.3	4927.0	4880.5	4871.2	4785.3	4679.7	4568.0	4487.3	4421.1	4278.3
12.5°	5068.8	5124.6	5128.8	5070.8	5056.4	4964.3	4872.2	4724.2	4619.7	4544.2	4334.2
15°	5241.6	5307.8	5295.4	5237.4	5221.9	5128.8	5038.8	4902.2	4793.6	4688.0	4425.2
17.5°	5380.2	5443.3	5427.8	5401.9	5393.7	5321.2	5246.7	5098.8	5002.6	4867.0	4565.9
20°	5475.4	5534.4	5540.6	5533.3	5580.9	5512.6	5471.3	5366.8	5261.2	5139.1	4758.4
22.5°	5512.6	5583.0	5643.0	5689.6	5787.9	5777.5	5770.3	5710.3	5606.8	5428.8	5012.9
25°	5524.0	5594.4	5687.5	5802.3	5978.2	6041.4	6086.9	6101.4	5988.6	5847.9	5329.5
27.5°	5526.1	5601.6	5696.8	5882.0	6150.0	6340.4	6449.0	6499.7	6436.6	6324.8	5759.9
30°	5482.6	5560.2	5682.3	5929.6	6284.5	6597.0	6777.0	7001.5	6974.6	6880.5	6299.0
32.5°	5357.4	5427.8	5596.4	5921.3	6418.0	6859.8	7140.2	7529.2	7620.2	7559.2	6920.8
35°	5132.9	5218.8	5437.1	5853.0	6490.4	7115.3	7567.5	8172.7	8337.2	8341.4	7683.3
37.5°	4906.3	4971.5	5228.1	5724.7	6530.7	7341.9	7973.1	8817.3	9056.3	9061.5	8317.6
40°	4665.3	4725.3	5007.7	5553.0	6489.4	7519.9	8350.7	9437.1	9779.6	9747.5	8940.5
42.5°	4352.8	4419.0	4699.4	5319.2	6385.9	7657.5	8734.6	10087.9	10416.9	10453.1	9590.2
45°	4085.9	4138.6	4383.8	4953.9	6196.5	7732.0	9094.6	10782.1	11158.8	11120.5	10283.4
47.5°	3756.8	3835.5	4097.2	4657.0	5856.1	7713.4	9439.2	11469.2	11888.2	11853.0	10884.6
50°	2898.1	2989.1	3597.5	4345.6	5421.6	7567.5	9751.6	12126.2	12646.6	12554.5	11520.9
52.5°	2632.2	2658.0	2900.1	3987.6	4993.2	7236.4	9981.3	12955.9	13264.3	13228.1	12165.5
55°	2469.7	2519.4	2630.1	3285.0	4608.4	6698.4	10140.7	13649.2	13996.8	13827.1	12749.0
57.5°	2326.9	2362.1	2493.5	2812.2	4165.5	5957.5	10094.1	14233.7	14544.1	14307.2	13319.1
60°	2174.8	2197.6	2329.0	2567.0	3687.5	5139.1	9621.3	14837.0	14974.6	14757.3	13801.3
62.5°	2056.9	2078.6	2157.3	2385.9	3315.0	4553.5	8847.3	14879.4	15218.7	15060.4	14211.0
65°	1905.8	1920.3	2018.6	2198.6	2969.5	4204.8	8165.5	14481.0	15100.8	15061.5	14368.3
67.5°	1739.3	1756.8	1850.0	1977.2	2527.7	3794.1	7025.3	14265.8	14602.1	14640.4	14073.4
70°	1543.7	1556.1	1652.3	1744.4	2162.4	3330.6	5585.1	13441.2	13833.3	13832.3	13162.9
72.5°	1332.6	1331.6	1426.8	1524.0	1811.7	2797.7	4372.5	11933.7	12971.5	12893.9	11867.5
75°	1098.8	1114.3	1206.4	1283.0	1507.5	2268.0	3045.0	8644.5	11451.6	11558.1	10242.0
77.5°	702.5	712.9	764.6	843.2	1054.3	1733.0	1986.5	4803.9	7646.1	9222.9	8062.0
80°	513.2	518.4	563.9	609.4	701.5	1055.3	1009.8	2087.9	3030.5	4527.7	4945.7
82.5°	349.7	350.7	387.0	397.3	402.5	475.9	479.0	1016.0	1443.3	1699.9	2184.2
85°	231.8	192.4	150.0	198.7	203.8	174.9	170.7	458.4	716.0	858.8	809.1
87.5°	51.7	50.7	59.0	60.0	57.9	49.7	41.4	70.4	107.6	106.6	136.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4	4132.4
2.5°	4142.8	4137.6	4108.6	4047.6	4006.2	3963.8	3940.0	3925.5	3930.7	3906.9	3896.5
5°	4153.1	4127.2	4045.5	3973.1	3907.9	3834.4	3773.4	3765.1	3777.5	3755.8	3743.4
7.5°	4180.0	4125.2	4020.7	3896.5	3787.9	3718.5	3630.6	3586.1	3583.0	3561.3	3565.4
10°	4195.5	4124.1	3984.5	3834.4	3707.2	3584.0	3489.9	3440.2	3437.1	3406.1	3398.8
12.5°	4237.9	4135.5	3942.0	3758.9	3617.2	3452.6	3353.3	3307.8	3302.6	3259.2	3242.6
15°	4303.1	4161.4	3897.5	3671.0	3487.8	3333.7	3214.7	3153.6	3144.3	3093.6	3076.0
17.5°	4406.6	4234.8	3884.1	3591.3	3375.0	3206.4	3066.7	3000.5	2946.7	2918.8	2895.0
20°	4546.3	4325.9	3899.6	3516.8	3233.3	3038.8	2865.0	2778.0	2740.8	2695.3	2698.4
22.5°	4744.9	4468.7	3926.5	3458.9	3105.0	2859.8	2664.2	2567.0	2499.7	2461.4	2463.5
25°	5024.3	4683.9	3979.3	3404.0	2965.3	2664.2	2433.5	2298.0	2229.7	2204.8	2179.0
27.5°	5377.1	4941.5	4104.5	3336.8	2799.8	2442.8	2187.3	2029.0	1959.6	1922.4	1917.2
30°	5830.3	5279.8	4251.4	3287.1	2626.0	2166.6	1882.0	1756.8	1695.8	1643.0	1618.2
32.5°	6382.8	5757.9	4414.9	3237.4	2410.7	1857.2	1599.6	1503.4	1406.1	1338.8	1341.9
35°	7024.3	6278.3	4658.0	3174.3	2158.3	1568.5	1390.6	1266.4	1175.4	1130.9	1110.2
37.5°	7629.5	6812.2	4943.6	3110.2	1875.8	1381.3	1184.7	1069.8	999.5	965.3	972.6
40°	8242.1	7362.6	5189.8	2952.9	1559.2	1211.6	980.9	915.7	887.7	860.8	863.9
42.5°	8790.4	7801.3	5369.9	2778.0	1337.8	1017.1	836.0	850.5	867.0	851.5	847.4
45°	9361.6	8314.5	5528.2	2480.1	1152.6	863.9	799.8	840.1	876.4	874.3	869.1
47.5°	9934.8	8790.4	5543.7	2084.8	984.0	812.2	798.8	828.8	876.4	884.6	878.4
50°	10525.5	9289.1	5452.6	1619.2	912.6	818.4	799.8	805.0	857.7	867.0	863.9
52.5°	11180.5	9828.2	5228.1	1231.2	884.6	828.8	802.9	795.6	825.7	842.2	845.3
55°	11782.7	10256.5	4807.0	1087.4	863.9	829.8	825.7	801.9	802.9	794.6	815.3
57.5°	12288.6	10665.2	4329.0	1008.8	845.3	820.5	836.0	791.5	779.1	745.0	736.7
60°	12812.1	10997.3	3656.5	955.0	823.6	809.1	810.1	773.9	742.9	693.2	678.7
62.5°	13183.6	11173.2	3003.6	891.9	793.6	791.5	776.0	749.1	721.2	677.7	671.5
65°	13291.2	11080.1	2307.3	825.7	754.3	762.5	734.6	697.4	581.5	527.7	527.7
67.5°	12935.3	10506.9	1708.2	749.1	706.7	723.2	668.4	549.4	489.4	457.3	462.5
70°	11959.6	9580.9	1112.3	637.3	638.4	651.8	551.5	494.6	437.7	418.0	428.3
72.5°	10655.9	8207.9	733.6	508.0	538.0	515.3	503.9	455.2	404.6	381.8	389.0
75°	8781.1	6481.1	509.1	399.4	348.7	439.7	448.0	382.8	343.5	417.0	433.5
77.5°	6937.4	4504.9	420.1	279.4	257.6	324.9	359.0	354.9	568.0	667.4	660.1
80°	4125.2	2593.9	342.5	193.5	182.1	209.0	282.5	407.7	636.3	478.0	455.2
82.5°	1870.7	1179.5	182.1	101.4	119.0	138.6	211.1	507.0	417.0	306.3	288.7
85°	730.5	384.9	72.4	44.5	41.4	51.7	96.2	244.2	167.6	135.5	135.5
87.5°	94.2	69.3	20.7	15.5	13.5	16.6	31.0	135.5	78.6	66.2	64.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)